Release notes for ENDF/B Development photoat-039_Y_000 evaluation



October 13, 2016

- checkr Warnings:
 - 1. A previous error halted parsing of the current section $MAT=3900,\ MF=1,\ MT=451\ (1)$: Parsing stopped

ERROR(S) FOUND IN MAT=3900, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 158 TO 185

- checkr Errors:
 - 1. A variable is outside the allowed ENDF range MAT=3900, MF=1, MT=451 (0): Variable range

ERROR(S) FOUND IN MAT=3900, MF= 1, MT=451
MOD = 3 OUT OF RANGE 0 - 1 RECORD NUMBER 158

2. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=3900,\ MF=23,\ MT=501\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=501
SECTION 23/501 NOT IN DIRECTORY RECORD NUMBER 187

3. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3900, MF=23, MT=502 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=502
SECTION 23/502 NOT IN DIRECTORY RECORD NUMBER 948

4. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3900, MF=23, MT=504 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=504
SECTION 23/504 NOT IN DIRECTORY RECORD NUMBER 1250

5. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3900, MF=23, MT=515 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=515
SECTION 23/515 NOT IN DIRECTORY RECORD NUMBER 1291

6. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=3900,\ MF=23,\ MT=516\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=516
SECTION 23/516 NOT IN DIRECTORY RECORD NUMBER 1325

7. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3900, MF=23, MT=517 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=517 SECTION 23/517 NOT IN DIRECTORY

RECORD NUMBER 1377

8. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 3900, MF = 23, MT = 522 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=522 SECTION 23/522 NOT IN DIRECTORY

RECORD NUMBER 1417

9. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3900, MF=23, MT=534 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=534 SECTION 23/534 NOT IN DIRECTORY

RECORD NUMBER 1810

10. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 3900, MF = 23, MT = 535 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=535 SECTION 23/535 NOT IN DIRECTORY

RECORD NUMBER 1833

11. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3900, MF=23, MT=536 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=536 SECTION 23/536 NOT IN DIRECTORY

RECORD NUMBER 1860

12. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3900, MF=23, MT=537 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=537 SECTION 23/537 NOT IN DIRECTORY

RECORD NUMBER 1887

13. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3900, MF=23, MT=538 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=538 SECTION 23/538 NOT IN DIRECTORY

RECORD NUMBER 1916

14. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3900, MF=23, MT=539 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=539 SECTION 23/539 NOT IN DIRECTORY

RECORD NUMBER 1946

15. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=3900,\ MF=23,\ MT=540\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=540 SECTION 23/540 NOT IN DIRECTORY

RECORD NUMBER 1982

16. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 3900, MF = 23, MT = 541 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=541 SECTION 23/541 NOT IN DIRECTORY

RECORD NUMBER 2020

17. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 3900, MF = 23, MT = 542 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=542 SECTION 23/542 NOT IN DIRECTORY

RECORD NUMBER 2075

18. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 3900, MF = 23, MT = 543 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=543 SECTION 23/543 NOT IN DIRECTORY

RECORD NUMBER 2130

19. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=3900,\ MF=23,\ MT=544\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=544 SECTION 23/544 NOT IN DIRECTORY

RECORD NUMBER 2167

20. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3900, MF=23, MT=545 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=545 SECTION 23/545 NOT IN DIRECTORY

RECORD NUMBER 2214

21. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3900, MF=23, MT=546 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=546 SECTION 23/546 NOT IN DIRECTORY

RECORD NUMBER 2261

22. Missing a section in directory so your directory is messed up. This error will break everything else MAT=3900, MF=23, MT=547 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=547 SECTION 23/547 NOT IN DIRECTORY

RECORD NUMBER 2333

23. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=3900,\ MF=23,\ MT=550\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=23, MT=550 SECTION 23/550 NOT IN DIRECTORY

RECORD NUMBER 2405

24. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 3900, MF = 27, MT = 502 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=27, MT=502 SECTION 27/502 NOT IN DIRECTORY

RECORD NUMBER 2467

25. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 3900, MF = 27, MT = 504 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=27, MT=504 SECTION 27/504 NOT IN DIRECTORY

RECORD NUMBER 2519

26. Missing a section in directory so your directory is messed up. This error will break ev-

MAT = 3900, MF = 27, MT = 505 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=27, MT=505 SECTION 27/505 NOT IN DIRECTORY

RECORD NUMBER 2573

27. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 3900, MF = 27, MT = 506 (0): Directory (b)

ERROR(S) FOUND IN MAT=3900, MF=27, MT=506 SECTION 27/506 NOT IN DIRECTORY

RECORD NUMBER 2729

- fudge-4.0 Warnings:
 - 1. generic warning message reaction label $\breve{0}$: $Y + \breve{g}amma$ [coherent] / Product: gamma (Error # 0): Warning

WARNING: coherentScattering is not a valid distribution component for 2-body reaction

2. FIXME: Generic fudge unimplemented message reaction label 0: Y + gamma [coherent] / Product: gamma (Error # 2): Generic unimp (c)

WARNING: Checking not yet implemented for pointwise type data

3. generic warning message reaction label I: Y + gamma [incoherent] / Product: gamma (Error # 0): Warning

WARNING: incoherentScattering is not a valid distribution component for 2-body reaction

4. FIXME: Generic fudge unimplemented message reaction label 1: Y + gamma [incoherent] / Product: gamma (Error # 2): Generic unimp(c)

WARNING: Checking not yet implemented for piecewise type data

5. Cross sections do not correctly sum up properly according to an ENDF (or equivalent) sumrule summedReaction label 19: total (Error # 0): Sumrule

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 100.00%

6. Cross sections do not correctly sum up properly according to an ENDF (or equivalent) sumrule summedReaction label 21: photoelectric absorption (Error # 0): Sumrule

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 74.54%

• fudge-4.0 Errors:

 Calculated and tabulated thresholds don't agree reaction label 0: Y + gamma [coherent] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

2. 2-body reaction not in center-of-mass frame reaction label 0: Y + gamma [coherent] / Product: gamma (Error # 1): 2-body not in COM

WARNING: 2-body reaction not in center-of-mass frame!

3. Calculated and tabulated thresholds don't agree reaction label 1: Y + gamma [incoherent] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

4. 2-body reaction not in center-of-mass frame reaction label 1: Y + gamma [incoherent] / Product: gamma (Error # 1): 2-body not in COM

WARNING: 2-body reaction not in center-of-mass frame!

5. Energy range of data set does not match cross section range reaction label 1: Y + gamma [incoherent] / Product: gamma / Distribution incoherentScattering - piecewise: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (0.0 -> 1000000000.0) vs (1.0 -> 1e+11)

6. Calculated and tabulated thresholds don't agree reaction label 2: e- + e+ + Y [electron field] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2.044e6 eV!

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.022e6 eV!

- 8. Calculated and tabulated thresholds don't agree reaction label 4: e- + Y1s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.7e4 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 5: e- + Y2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2354.9 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 6: e- + Y2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2159.7 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 7: e- + Y2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2081.5 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 8: e- + Y3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 385.79 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 9: e- + Y3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 312.26 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 10: e- + Y3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 299.92 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 11: e- + Y3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 168.74 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 12: e- + Y3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 166.51 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 13: e- + Y4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 53.35 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 14: e- + Y4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 33.71 eV!

- 19. Calculated and tabulated thresholds don't agree reaction label 15: e- + Y4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 32.14 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 16: e- + Y4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.24 eV!
- 21. Calculated and tabulated thresholds don't agree reaction label 17: e- + Y4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.13 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 18: e- + Y5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.68 eV!
- 23. Calculated and tabulated thresholds don't agree summedReaction label 19: total / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!
- 24. Calculated and tabulated thresholds don't agree summedReaction label 20: pair product / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.022e6 eV!
- 25. Calculated and tabulated thresholds don't agree $summedReaction\ label\ 21:\ photoelectric\ absorption\ /\ Cross\ section:\ (Error\ \#\ 0):\ Threshold\ mismatch$
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.13 eV!
- xsectplotter Warnings:
 - 1. Encountered runtime warning in xsect plotter or Fudge or matplotlib $\it Error: Runtime Warning$

stderr while processing crossSection

/usr/local/lib/python2.7/site-packages/matplotlib-1.3.1-py2.7-linux-x86_64.egg/matplotlib/pyplot.py:412: Runtime ... [3 more lines]